



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

CGI Windows & Doors

10100 NW 25th Street
Miami, FL 33172

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series Clipped, Extruded Aluminum Tube Mullion – L.M.I.

APPROVAL DOCUMENT: Drawing No. M95-13A, titled "Mullion Elevations and Details", sheets 1, 2, 3, 4, 4.1, and 5 of 5, dated 11/25/95, with revision G dated 07/27/15, prepared by Al-Farooq Corporation, signed, sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Section Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA# 12-1220.15 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.



MP
8/5/15

NOA No. 15-0420.08
Expiration Date: March 28, 2018
Approval Date: August 13, 2015
Page 1

CGI Windows & Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

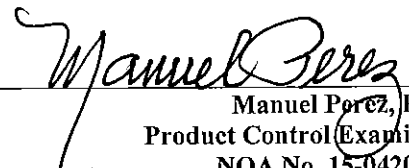
1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 95-0929.39)
2. Drawing No. **M95-13A**, titled Series "Mullion Elevations and Details", sheets 1, 2, 3, 4, 4.1 and 5 of 5, dated 11/25/95, with revision **G** dated 07/27/15, prepared by Al-Farooq Corporation, signed, sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 201-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Large Missile Impact Test per FBC, TAS 201-94
along with marked-up drawings and installation diagram of casement windows mulled using a 1"x 2"x 1/8" aluminum tube mullion, prepared by Hurricane Testing Lab, Inc., Test Report No. **HTL-0080-0105-08**, dated 03/26/08 for Specimens No. 1 and 2, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No. 08-0331.07)
2. Test reports on: 1) Large Missile Impact Test, Loading per SFBC, PA 201-94
along with marked-up drawings and installation diagram of an aluminum fixed window, prepared by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0080-0303-96**, dated 03/06/96, signed and sealed by Timothy S. Marshall, P.E.
(Submitted under NOA No. 95-0929.39)
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94
along with marked-up drawings and installation diagram of fixed windows mulled using a 1"x 2"x 1/8" aluminum tube mullion, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-96-525**, dated 02/12/96, signed and sealed by Hector M. Medina, P.E.
(Submitted under NOA No. 95-0929.39)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-5th Edition (2014)**, dated 04/13/15 and 07/25/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies with **ASTM E1300-09**


Manuel Perez, P.E.
Product Control Examiner
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CGI Windows & Doors

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D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS


1. None.

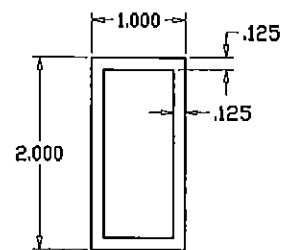
F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-5th Edition (2014)**, and of no financial interest, dated April 13, 2015, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Laboratory compliance letters for Test Report No. **HTL-0080-0105-08**, specimens **1** and **2**, issued by Hurricane Test Laboratory, Inc., dated 03/26/08, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No. 08-0331.07)
3. Laboratory compliance letters for Test Report No. **HTL-0080-0303-96**, issued by Hurricane Test Laboratory, Inc., dated 03/06/96, signed and sealed by Timothy S. Marshall, P.E.
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4. Laboratory compliance letters for Test Report No. **HETI-96-525**, issued by Hurricane Engineering & Testing, Inc., dated 02/12/96, signed and sealed by Hector M. Medina, P.E.
(Submitted under OA No. 95-0929.39)

G. OTHERS

1. Notice of Acceptance No. **12-1220.15**, issued to CGI Windows & Doors for their Series "Clipped" Aluminum Tube Mullion – L.M.I., approved on 02/28/13 and expiring on 03/28/18.

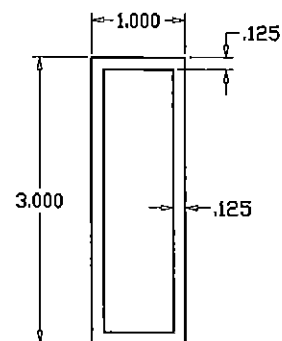

Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0420.08
Expiration Date: March 28, 2018
Approval Date: August 13, 2015



$$I_x = .332 \text{ IN}^4$$

$$S_x = .332 \text{ IN}^3$$

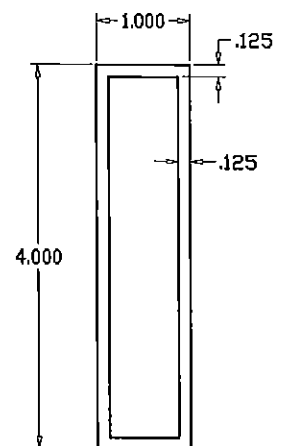
1X2 MULLION
6063-T6



$$I_x = .9502 \text{ IN}^4$$

$$S_x = .6335 \text{ IN}^3$$

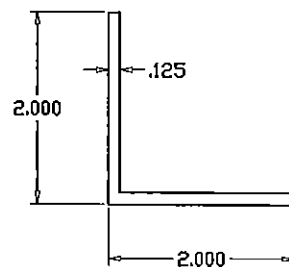
1X3 MULLION
6063-T6



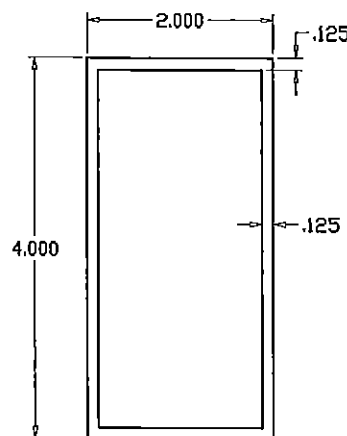
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$$S_x = 1.0187 \text{ IN}^3$$

1X4 MULLION
6063-T6



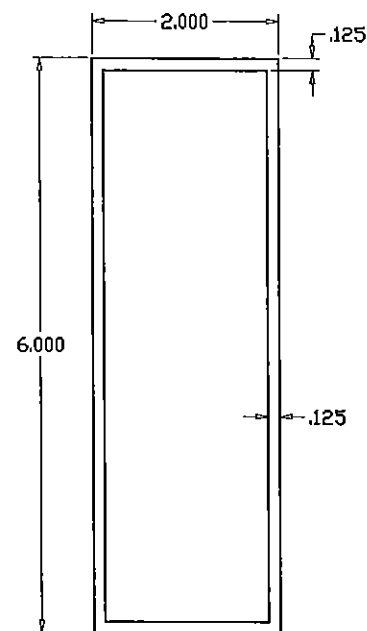
CLIP ANGLE
6063-T6



$$I_x = 2.9762 \text{ IN}^4$$

$$S_x = 1.4881 \text{ IN}^3$$

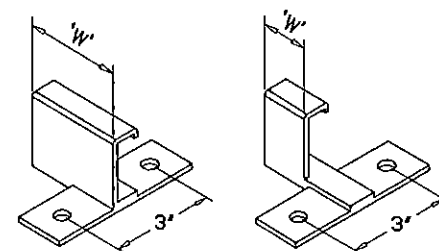
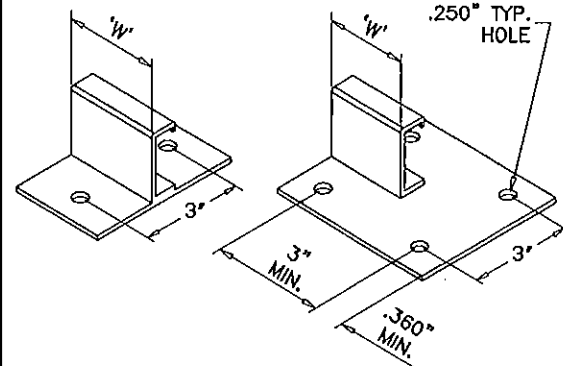
2X4 MULLION
6063-T6



$$I_x = 8.2757 \text{ IN}^4$$

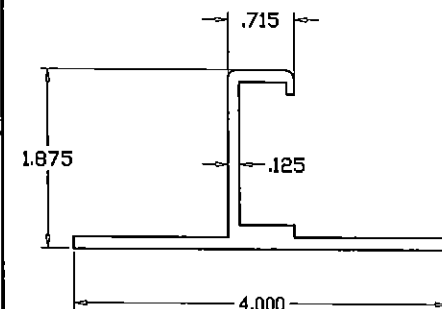
$$S_x = 2.7586 \text{ IN}^3$$

2X6 MULLION
6063-T6



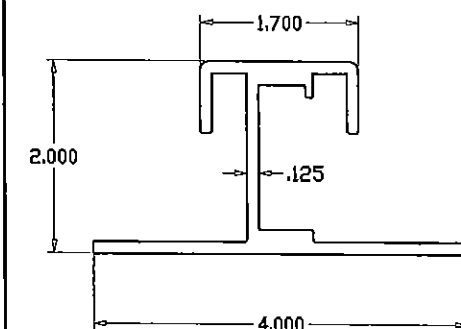
'W' DIMENSION

MULLION	'W' - IN.
2"	1.688
3"	2.688
4"	3.688
6"	5.688



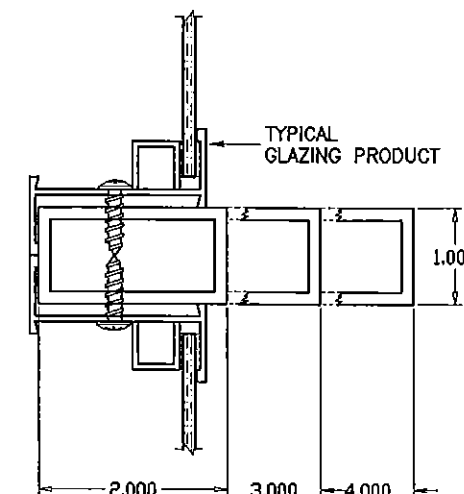
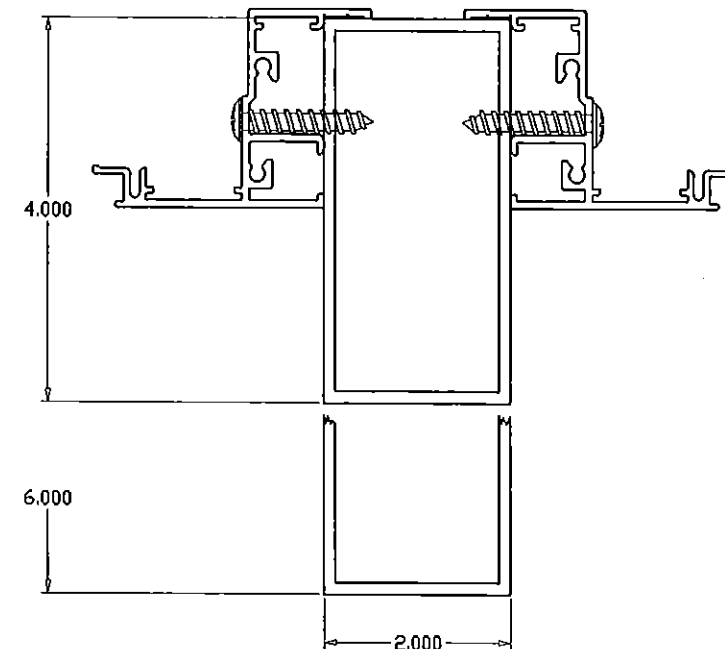
MULLION CLIP FOR 1BY TUBES

CGI-383
6063-T6



MULLION CLIP FOR 2BY TUBES

CGI-395
6063-T6



MULLIONS CONTAINING TYPICAL GLAZING PRODUCTS HORIZONTAL OR VERTICAL

SEE WINDOW OR DOOR APPROVAL FOR FASTENERS SIZES AND SPACING

MULLION SYSTEM IS RATED FOR LARGE MISSILE IMPACT.
AND CAN BE USED WITH ALL MIAMI-DADE COUNTY APPROVED
IMPACT AND NON-IMPACT RESISTANT PRODUCTS.

RECTANGULAR ALUMINUM TUBE MULLIONS USING MULLION PROPERTIES ONLY

NOTES:

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY
HURRICANE ZONE (HVHZ).

ALL GLAZING PRODUCTS USED WITH THESE MULLIONS MUST MEET THE
APPLICABLE BUILDING CODE REQUIREMENTS I.E: WIND LOAD, WATER
INFILTRATION, FORCED ENTRY RESISTANCE, SAFEGUARDS ETC.

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER
LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, EMBEDMENT
TO BASE MATERIAL SHALL BE BEYOND WALL COVERING (STUCCO, TILE ETC.).

ANCHORING CONDITIONS OTHER THAN THOSE SHOWN IN THESE DETAILS
ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE FLORIDA BLDG. CODE.

INSTRUCTIONS:

USE CHARTS AND GRAPHS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN LOAD REQUIRED PER ASCE 7
FOR PARTICULAR OPENING.
- STEP 2** USE DADE COUNTY APPROVED GLAZING PRODUCTS MEETING
ABOVE LOAD REQUIREMENTS.
- STEP 3** USE CONNECTION TO MULLION AS PER PRODUCT
APPROVAL.
- STEP 4** USING GRAPHS ON SHEET 2 SELECT MULLION SIZE WITH
DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED
IN STEP 1 ABOVE.
- STEP 5** USING ANCHOR TYPES ON SHEETS 4 & 5, AND ANCHOR GRAPHS
ON SHEET 3, SELECT ANCHOR TYPE WITH DESIGN RATING
MORE THAN THE DESIGN LOADS SPECIFIED IN STEP 1 ABOVE.

Engr: JAVAD AHMAD
CML
FLA. PE. # 70592
C.A.N. 3538

JUL 28 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0420.08
Expiration Date March 28, 2018
By: Manuel Perez
Miami Dade Product Control

MULLION ELEVATIONS AND DETAILS

CGI WINDOWS & DOORS.

10100 NW 25 STREET
MIAMI, FL 33172

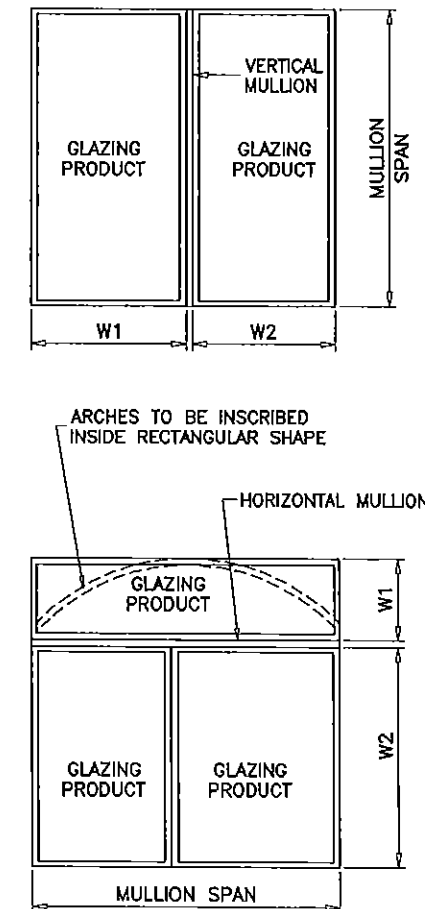
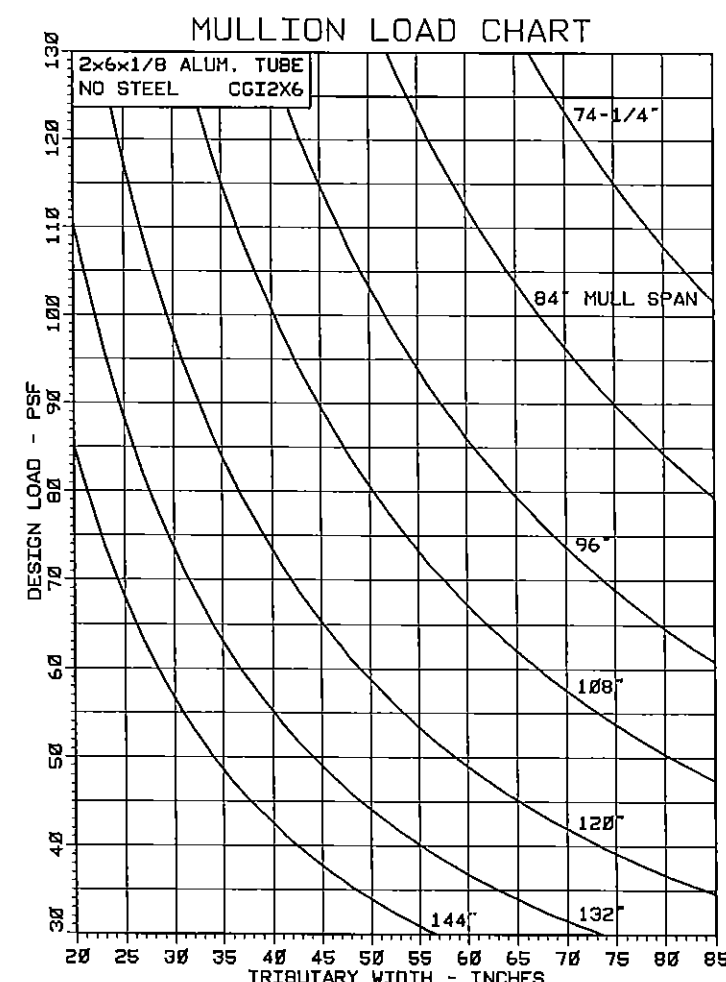
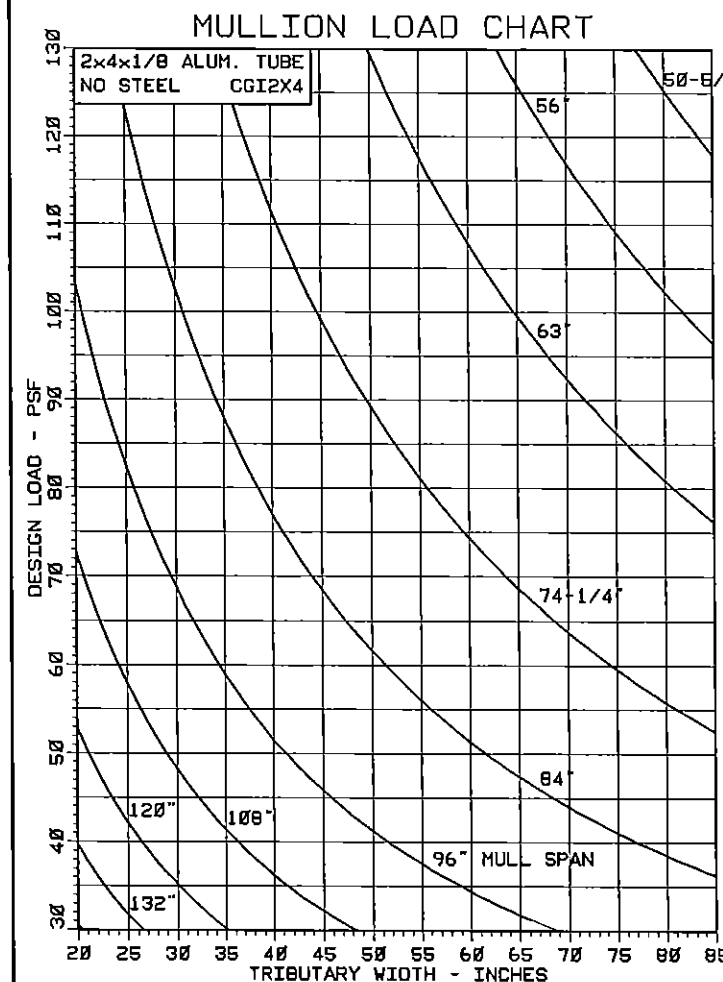
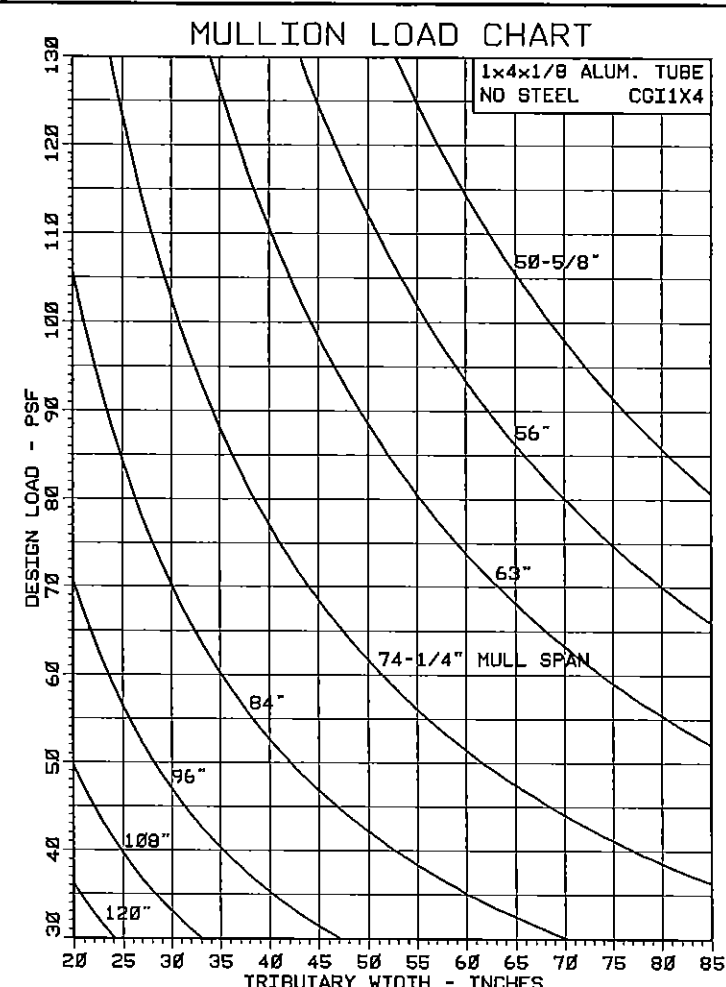
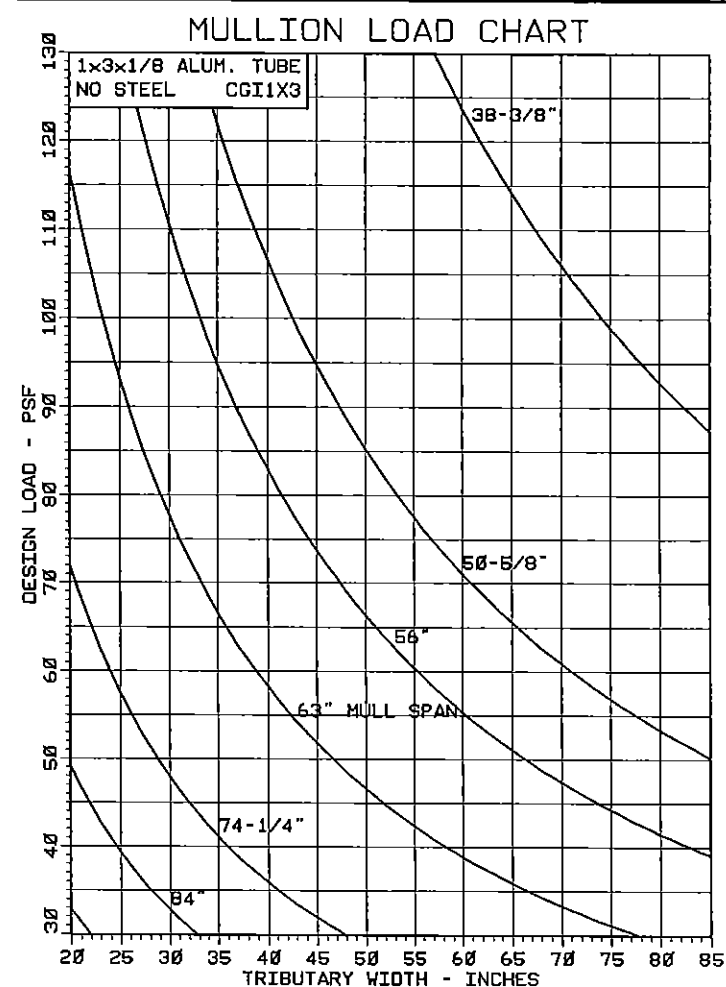
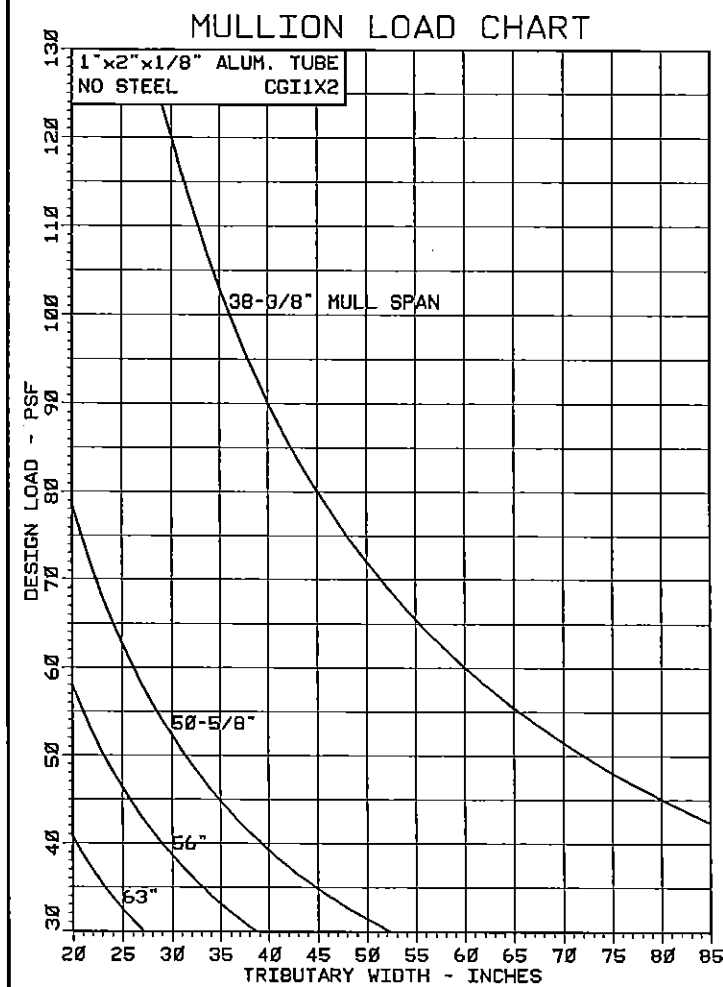
TEL (305) 593-6590 FAX (305) 593-6592

no.	date	by	description
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E	12.21.11		UPDATED TO 2010 FBC
F	04.08.15		UPDATED TO 2014 FBC
G	07.27.15		REV. PER RER COMMENTS

date: 11-25-95
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
M95-13A
sheet 1 of 5

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
MULLION M95-13A



TYPICAL MULLION ARRANGEMENTS

$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

NOTE:
MULLIONS RATED IN THESE CHARTS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY.
(INTERPOLATION BETWEEN WIDTHS ALLOWED)

MULLIONS

Engr: JAVAD AHMAD
CIVIL
FLA. RE # 70592
C.A.M. 3538

JUL 28 2015

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Miami Dade Product Control

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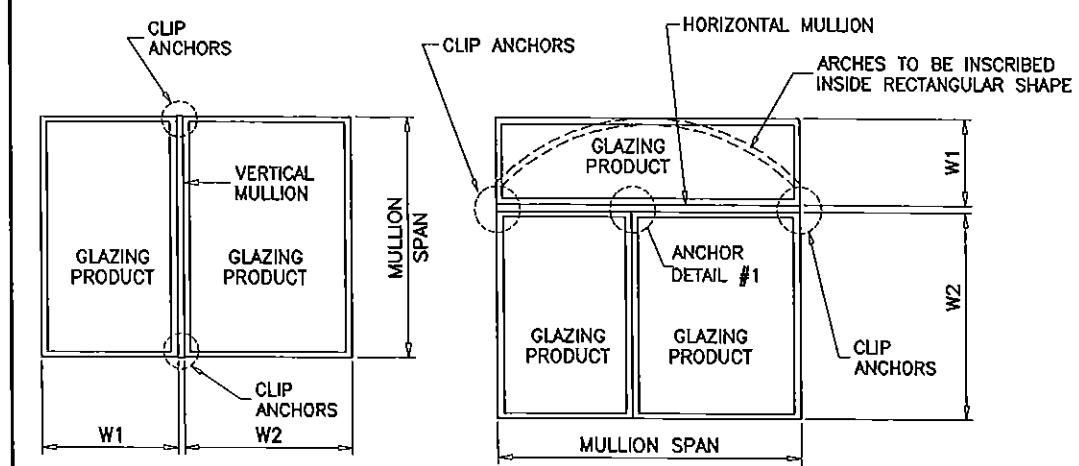
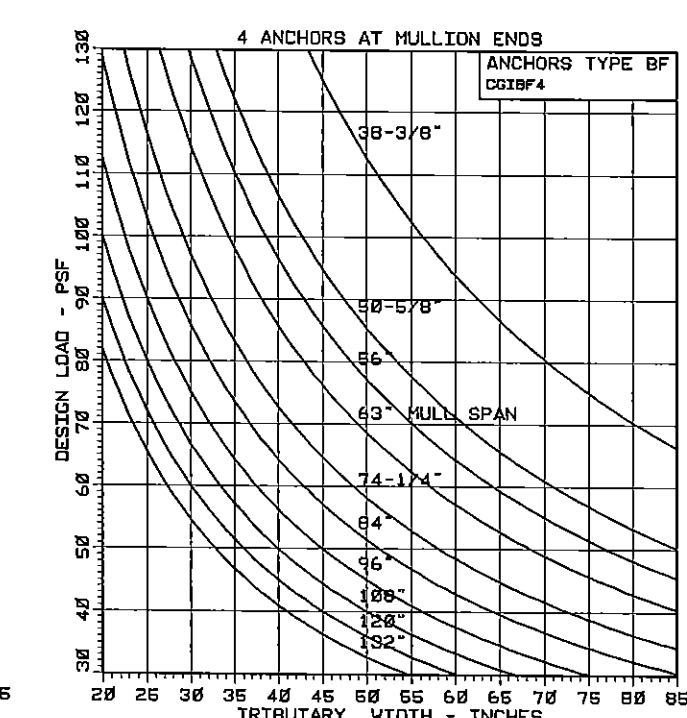
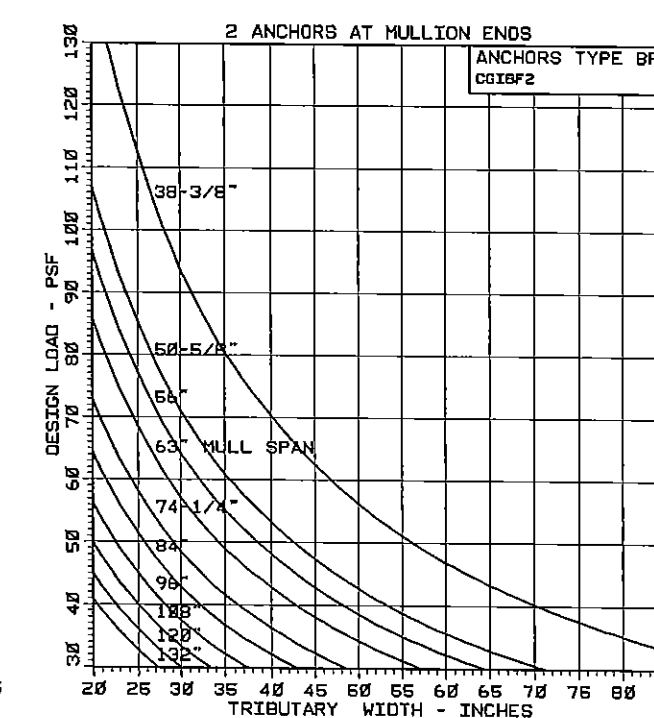
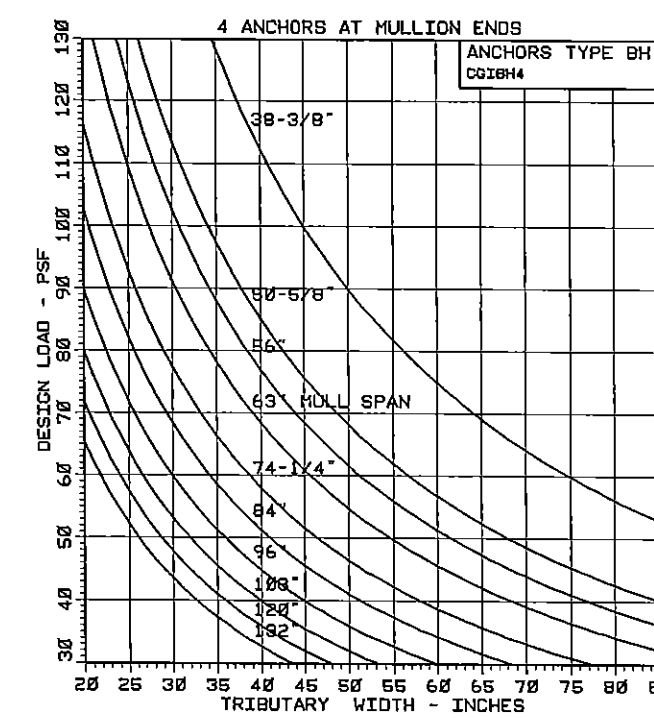
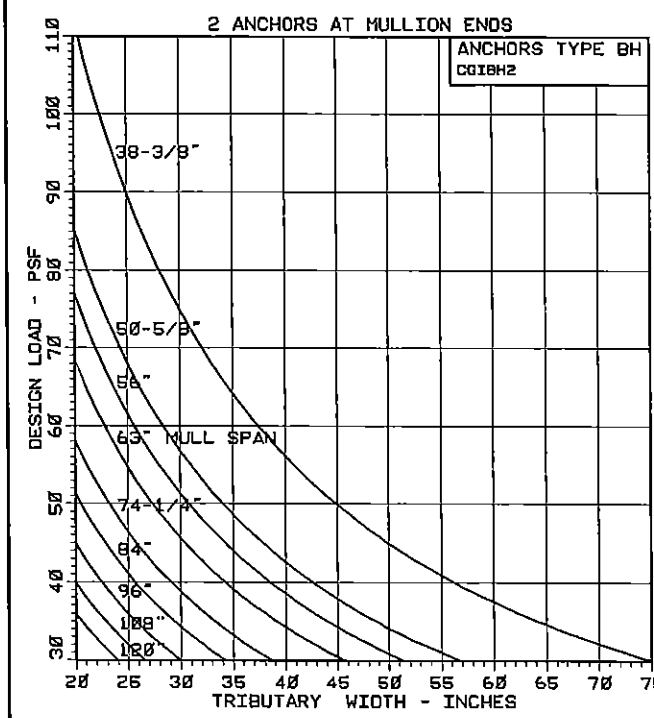
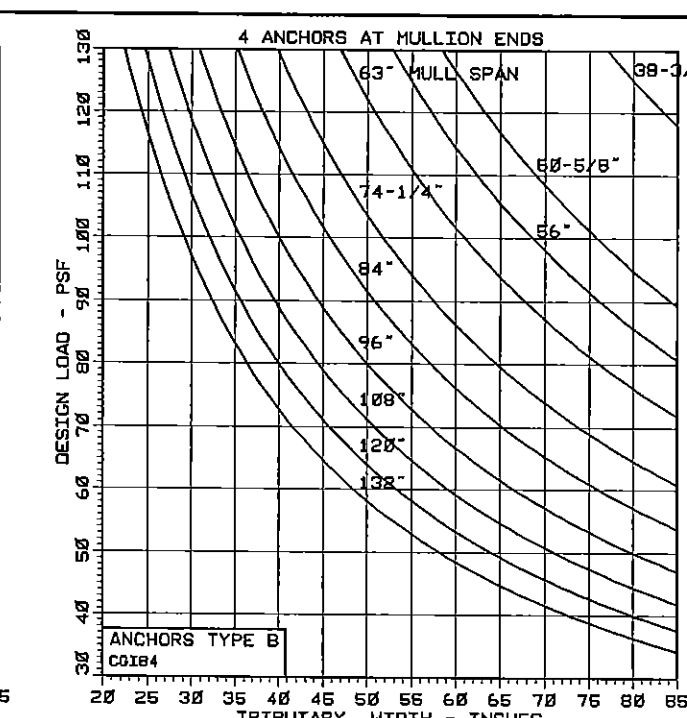
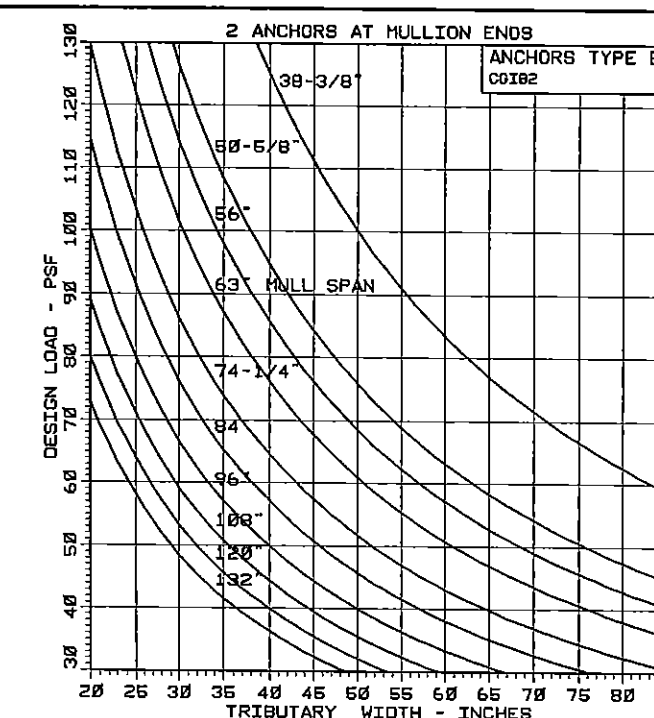
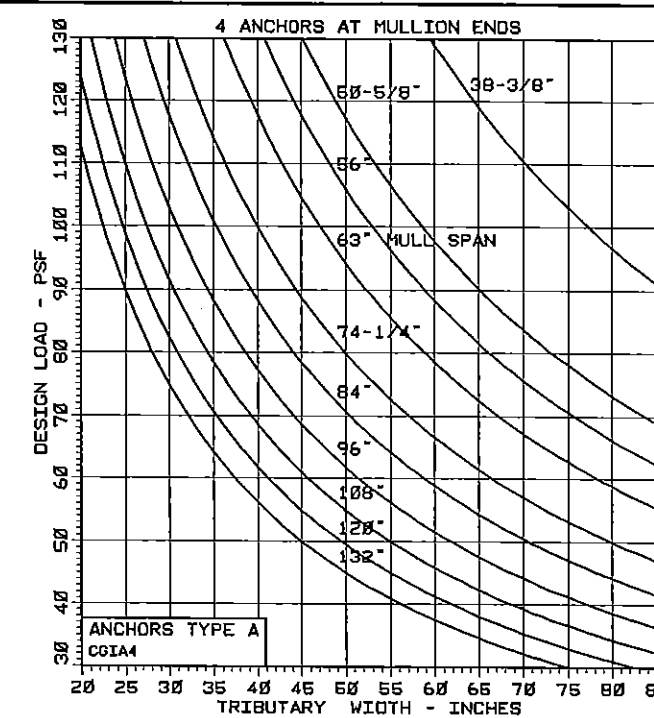
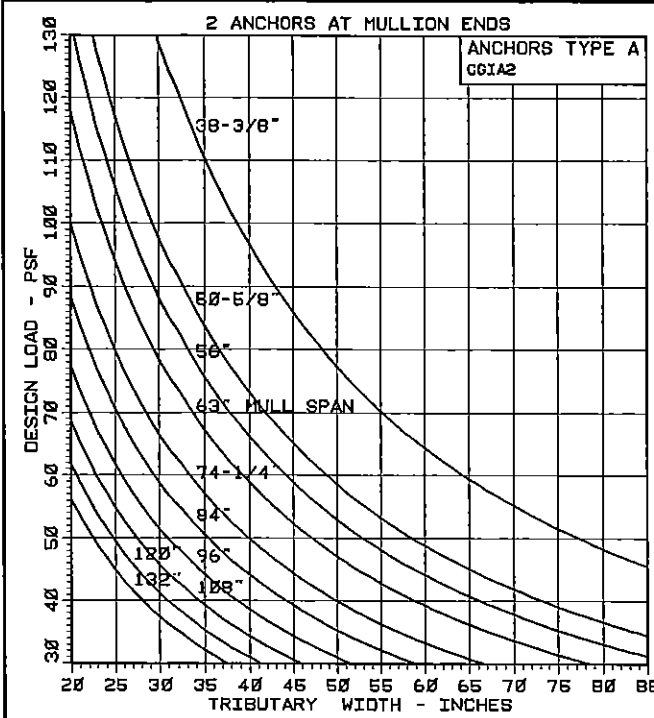
MULLION ELEVATIONS AND DETAILS

CGI WINDOWS & DOORS.
10100 NW 25 STREET
MIAMI, FL 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

no	date	by	description
D	03.27.08		NO CHANGE THIS SHEET
E	12.21.11		NO CHANGE THIS SHEET
F	04.08.15		NO CHANGE THIS SHEET
G	07.27.15		NO CHANGE THIS SHEET

date: 11-25-95
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
M95-13A
sheet 2 of 5



TYPICAL MULLION ARRANGEMENTS

$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

ANCHOR LOAD CHARTS

ANCHORS 'A'

APPLICABLE TO ANCHORS INTO 2BY WOOD BUCKS OR WOOD STRUCTURES OR THRU 1BY WOOD BUCKS INTO CONCRETE

ANCHORS 'B'

APPLICABLE TO ANCHORS INTO CONCRETE

ANCHORS 'BH'

APPLICABLE TO ANCHORS DIRECTLY TO HOLLOW BLOCKS OR THRU 1BY WOOD BUCKS INTO MASONRY

ANCHORS 'BF'

APPLICABLE TO ANCHORS DIRECTLY TO GROUT FILLED BLOCKS OR THRU 1BY WOOD BUCKS INTO MASONRY

NOTE:
ANY ANCHOR CONDITION SHOWN HEREIN MAY COVER LOCATIONS AT HEAD, SILL OR JAMB ENDS.
FOR ANCHORS DESCRIPTION SEE SHEETS 4 THRU 5.
(INTERPOLATION BETWEEN WIDTHS OR SPANS ALLOWED)

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By *Manuel Perez*
Miami Dade Product Control

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MULLION M95-13A

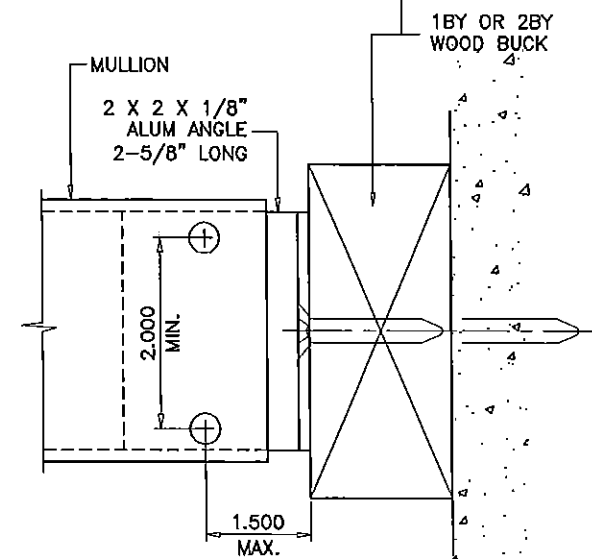
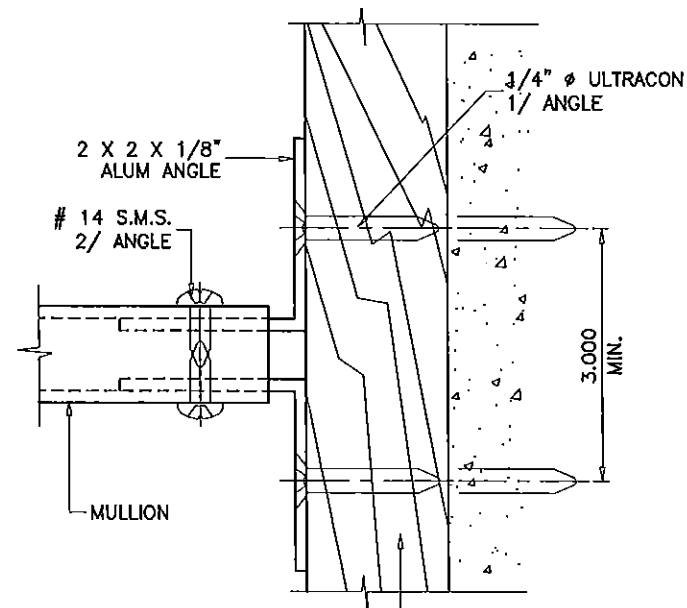
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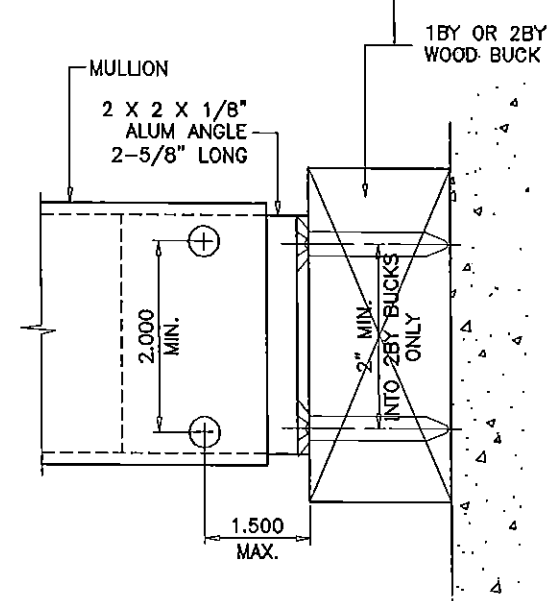
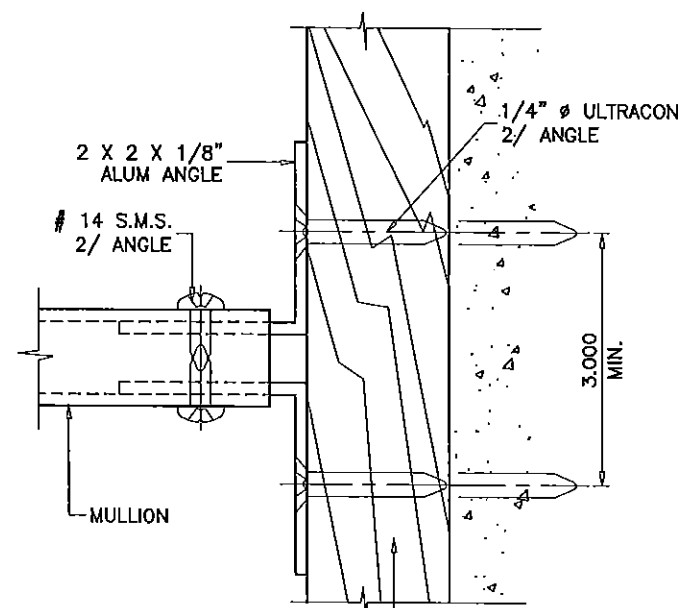
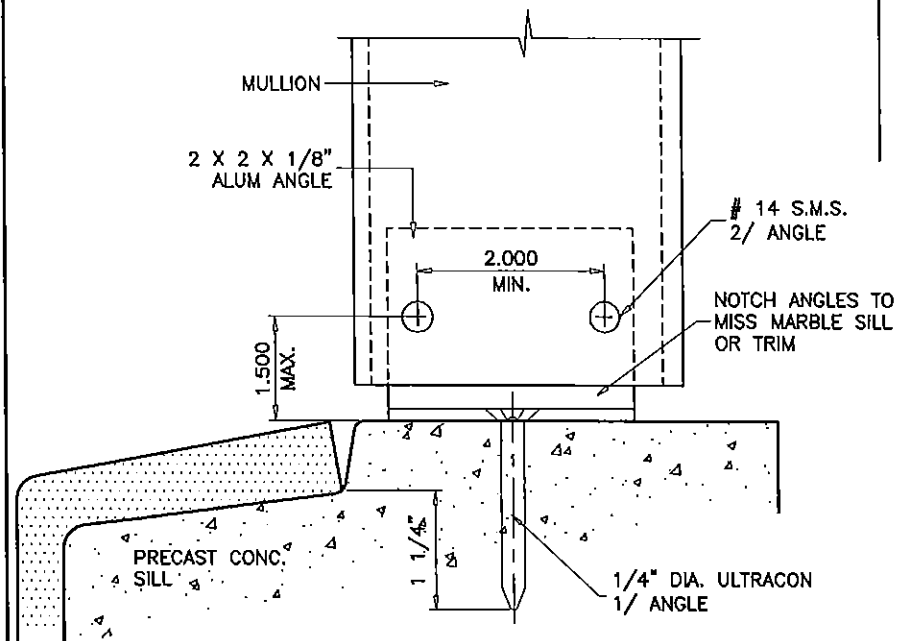
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E	12.21.11	ANCHORS REV.
F	04.08.15	UPDATED TO 2014 FBC
G	07.27.15	REV. PER PER COMMENTS

date: 11-25-95
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

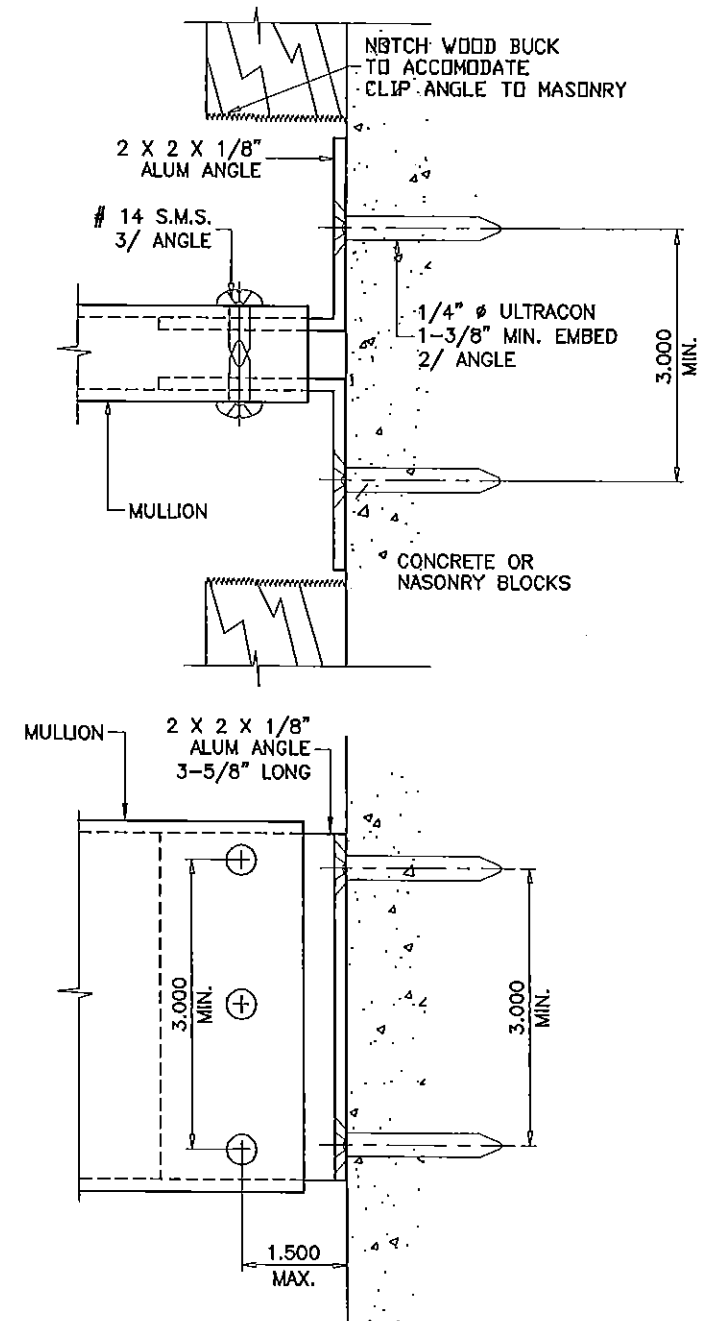
drawing no.
M95-13A
sheet 3 of 5



2 SCREWS PER SIDE REQUIRED FOR 3" TUBE MULLIONS
CLIP ANGLE ATTACHMENTS NOT APPLICABLE FOR 1"x2" TUBE MULL



2 SCREWS PER SIDE REQUIRED FOR 3" TUBE MULLIONS
CLIP ANGLE ATTACHMENTS NOT APPLICABLE FOR 1"x2" TUBE MULL



3 SCREWS PER SIDE REQUIRED FOR
4" & 6" TUBE MULLIONS

Engr: JAVAD AHMAD
CML
FLA. PE # 70592
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MULLION M95-13A

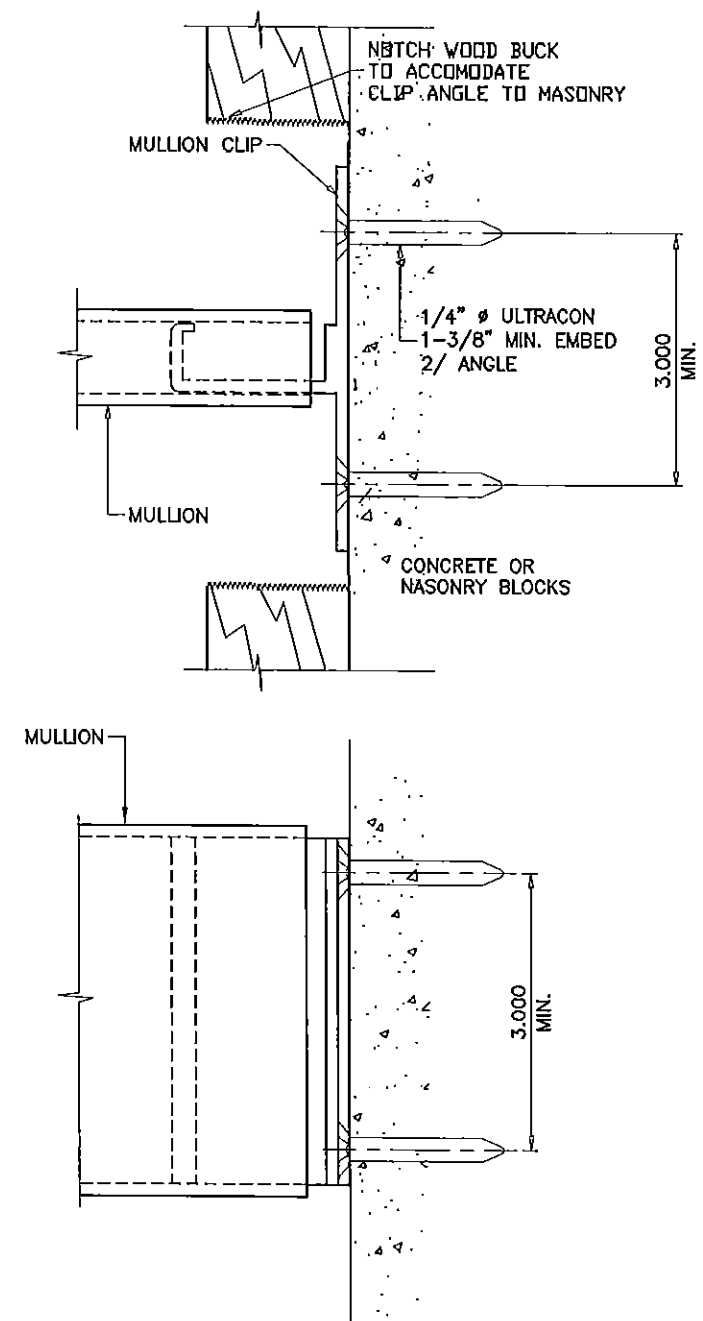
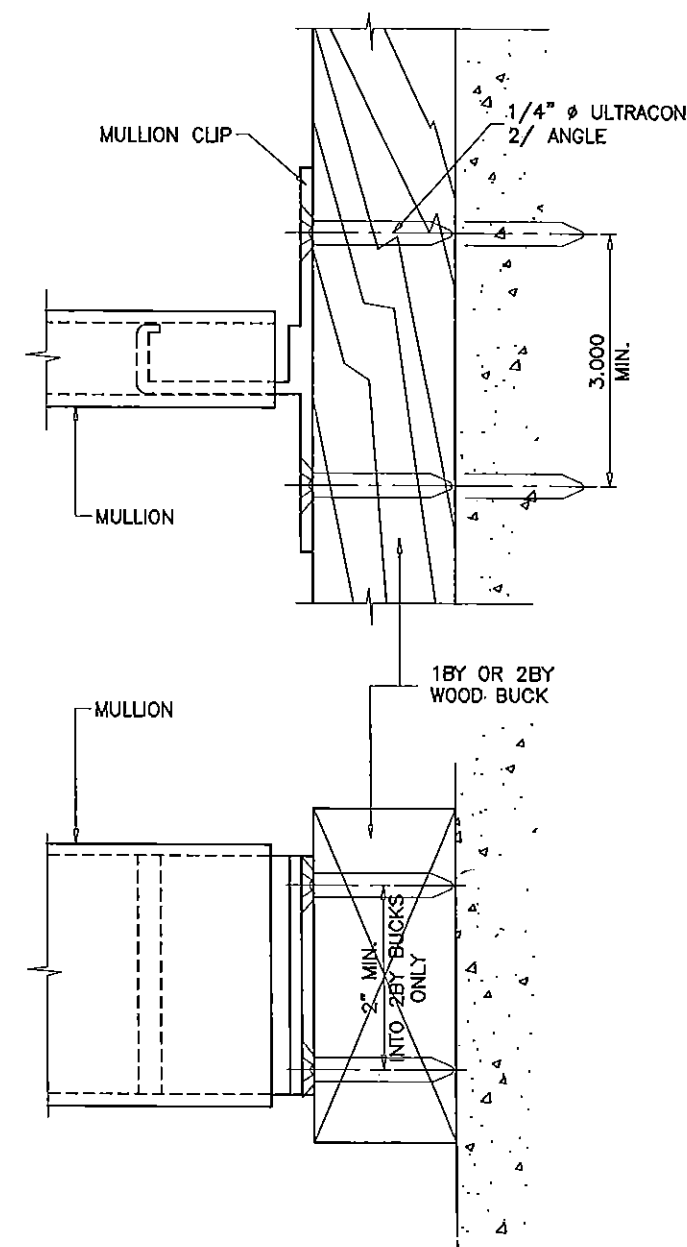
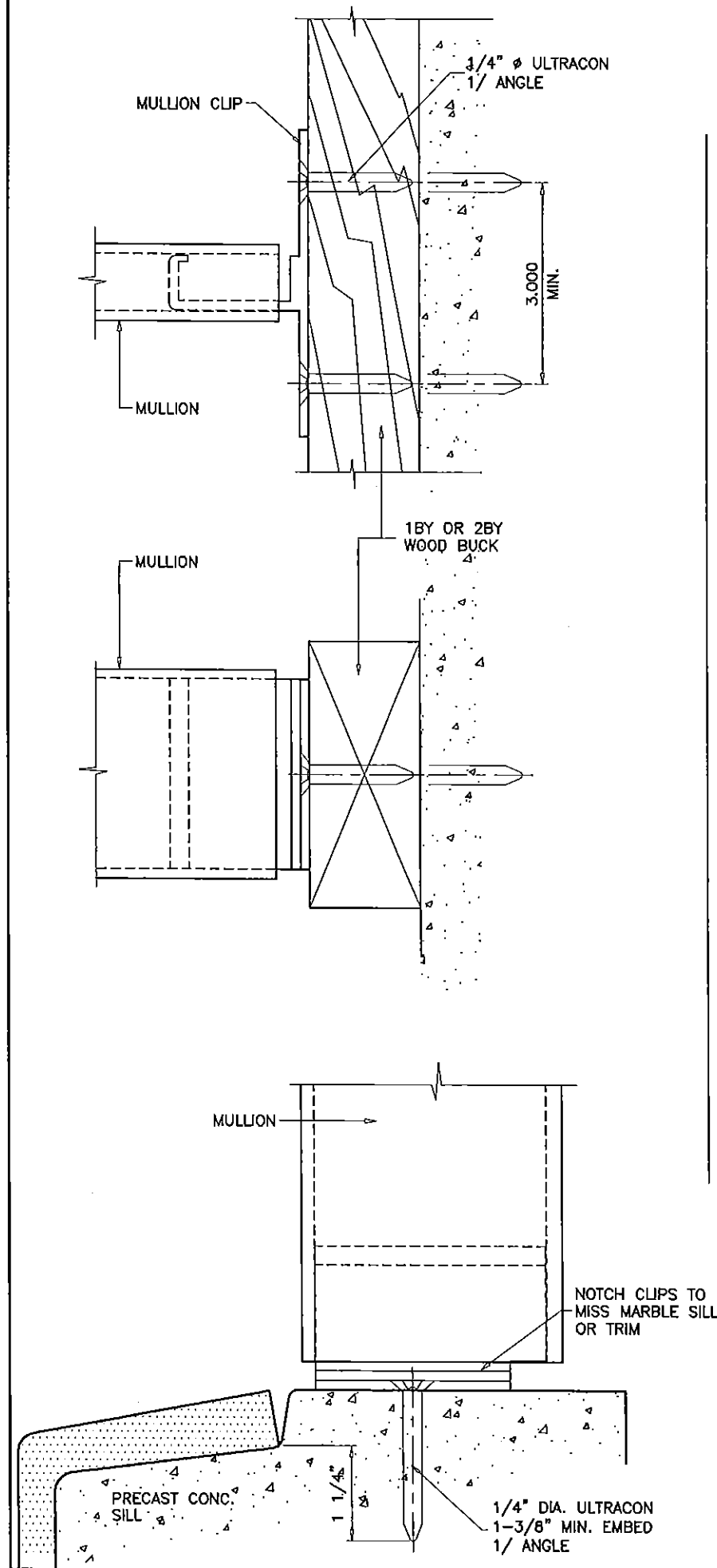
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date: 11-25-95
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
M95-13A
sheet 4 of 5



SEE SHEET 1 FOR APPLICABLE MULLION CLIP TO
1BY OR 2BY TUBE MULLIONS
AND FOR FABRICATION OPTIONS OF MULLION CLIPS

Engr: JAVAD AHMAD
CML
FLA. PE # 70592
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JUL 28 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0420.08
Expiration Date March 28, 2018
By *Manuel Perez*
Miami Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

MULLION M95-13A

MULLION ELEVATIONS AND DETAILS

CGI WINDOWS & DOORS.
10100 NW 25 STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX. (305) 593-6592

no	date	by	description
5	07.27.15		REV. PER RER COMMENTS

date: 11-25-95
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
M95-13A
sheet 4.1 of 5

WOOD BUCKS AND METAL STRUCTURE NOT BY CGI WDW.
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A' - 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE

TYPE 'B' - 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
1-1/2" MIN. EMBED INTO CONCRETE

TYPE 'BH' - 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO HOLLOW BLOCKS
1-1/4" MIN. EMBED INTO MASONRY

THRU 1BY BUCKS INTO MASONRY
1-1/4" MIN. EMBED INTO MASONRY

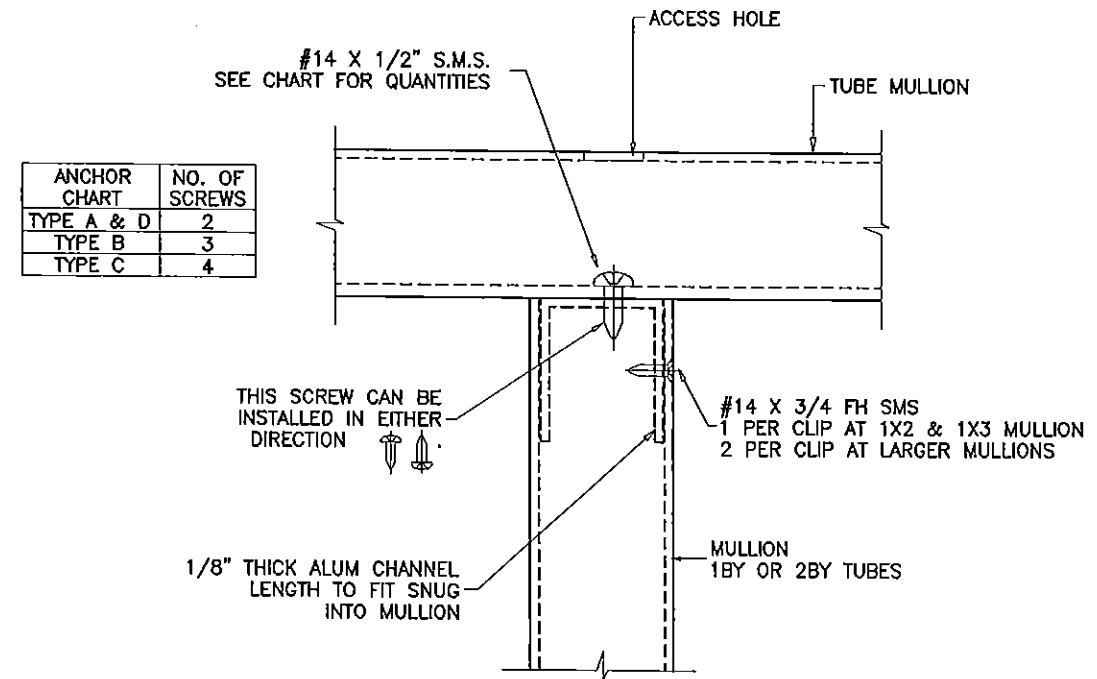
TYPE 'BF' - 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO FILLED BLOCKS
1-3/4" MIN. EMBED INTO MASONRY

THRU 1BY BUCKS INTO MASONRY
1-1/4" MIN. EMBED INTO MASONRY

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 1/2" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



ANCHORS DETAIL #1
METAL TO METAL CONNECTION

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

[Signature]

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MIAMI, FL 33172

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no	date	by	description
D	03.27.08		DETAIL 1 ADDED
E	12.21.11		ANCHORS REV.
F	04.08.15		UPDATED TO 2014 FBC
G	07.27.15		REV. PER COMMENTS

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